

Release notes for ENDF/B Development e-094_Pu_000
evaluation

ENDF
B-VII.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle
Reading ENDF file: ../e-094_Pu_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message
reaction label 1: e- + Pu + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message
reaction label 2: e- + Pu [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree
reaction label 0: e- + Pu [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree
reaction label 1: e- + Pu + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree
reaction label 2: e- + Pu [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree
reaction label 3: e- + e- + Pu1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 122350. eV!
5. Calculated and tabulated thresholds don't agree
reaction label 4: e- + e- + Pu2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23122. eV!
6. Calculated and tabulated thresholds don't agree
reaction label 5: e- + e- + Pu2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 22371. eV!
7. Calculated and tabulated thresholds don't agree
reaction label 6: e- + e- + Pu2p3/2 / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 18071. eV!
8. Calculated and tabulated thresholds don't agree
reaction label 7: $e^- + e^- + \text{Pu}3s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5902.1 eV!
9. Calculated and tabulated thresholds don't agree
reaction label 8: $e^- + e^- + \text{Pu}3p1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5548.5 eV!
10. Calculated and tabulated thresholds don't agree
reaction label 9: $e^- + e^- + \text{Pu}3p3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4549.9 eV!
11. Calculated and tabulated thresholds don't agree
reaction label 10: $e^- + e^- + \text{Pu}3d3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3977.8 eV!
12. Calculated and tabulated thresholds don't agree
reaction label 11: $e^- + e^- + \text{Pu}3d5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3776.9 eV!
13. Calculated and tabulated thresholds don't agree
reaction label 12: $e^- + e^- + \text{Pu}4s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1533.7 eV!
14. Calculated and tabulated thresholds don't agree
reaction label 13: $e^- + e^- + \text{Pu}4p1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1370.5 eV!
15. Calculated and tabulated thresholds don't agree
reaction label 14: $e^- + e^- + \text{Pu}4p3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1106. eV!
16. Calculated and tabulated thresholds don't agree
reaction label 15: $e^- + e^- + \text{Pu}4d3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 842.55 eV!
17. Calculated and tabulated thresholds don't agree
reaction label 16: $e^- + e^- + \text{Pu}4d5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 794.17 eV!
18. Calculated and tabulated thresholds don't agree
reaction label 17: $e^- + e^- + \text{Pu}4f5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 446.08 eV!

19. Calculated and tabulated thresholds don't agree
reaction label 18: $e^- + e^- + \text{Pu4f7/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 433.09 eV!
20. Calculated and tabulated thresholds don't agree
reaction label 19: $e^- + e^- + \text{Pu5s1/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 346.64 eV!
21. Calculated and tabulated thresholds don't agree
reaction label 20: $e^- + e^- + \text{Pu5p1/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 281.33 eV!
22. Calculated and tabulated thresholds don't agree
reaction label 21: $e^- + e^- + \text{Pu5p3/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 216.42 eV!
23. Calculated and tabulated thresholds don't agree
reaction label 22: $e^- + e^- + \text{Pu5d3/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 119.5 eV!
24. Calculated and tabulated thresholds don't agree
reaction label 23: $e^- + e^- + \text{Pu5d5/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 109.85 eV!
25. Calculated and tabulated thresholds don't agree
reaction label 24: $e^- + e^- + \text{Pu5f5/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.4 eV!
26. Calculated and tabulated thresholds don't agree
reaction label 25: $e^- + e^- + \text{Pu5f7/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.25 eV!
27. Calculated and tabulated thresholds don't agree
reaction label 26: $e^- + e^- + \text{Pu6s1/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.12 eV!
28. Calculated and tabulated thresholds don't agree
reaction label 27: $e^- + e^- + \text{Pu6p1/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.92 eV!
29. Calculated and tabulated thresholds don't agree
reaction label 28: $e^- + e^- + \text{Pu6p3/2}$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.42 eV!

30. Calculated and tabulated thresholds don't agree
reaction label 29: e- + e- + Pu7s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.42 eV!

• `xsectplotter` Warnings:

1. Mislabeled emitted particle
Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
... [4 more lines]